

A

A

B

B

Description.SchDoc

PowerDistribution.SchDoc

MicroController.SchDoc

GateDriverandMosfets.SchDoc

Measuring.SchDoc

Control.SchDoc

C

C

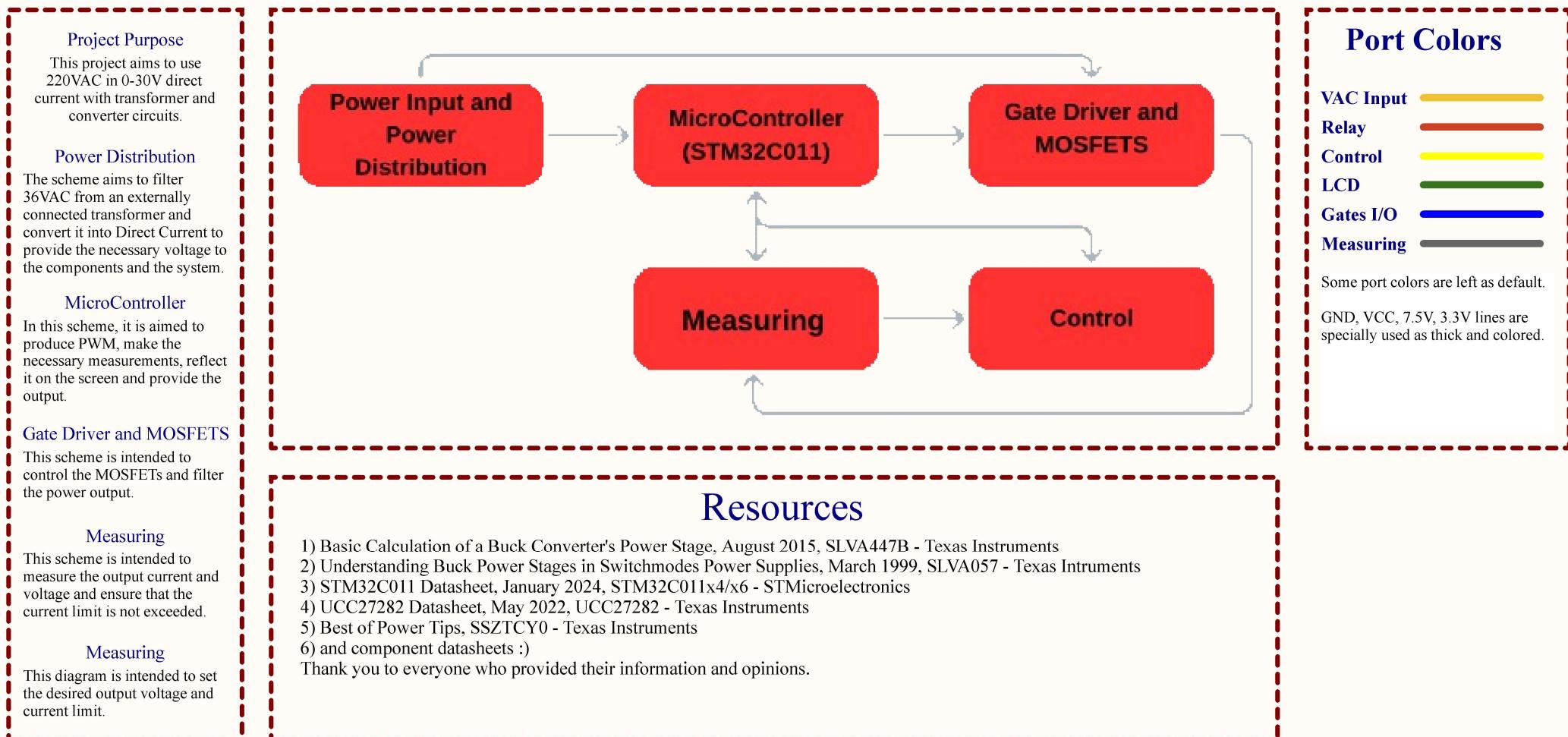
D

D

Title: Main			Mergen Elektronik	MERGEN	
Size: A4	Number: 20240101	Revision: v0.0.1	Türkiye	*	*
Date: 26.10.2024	Time: 00:18:16	Sheet 1 of 7	*	*	Drawn By: Ekrem T. Fırat
Project Mergen SMPS Board.PrjPcb					

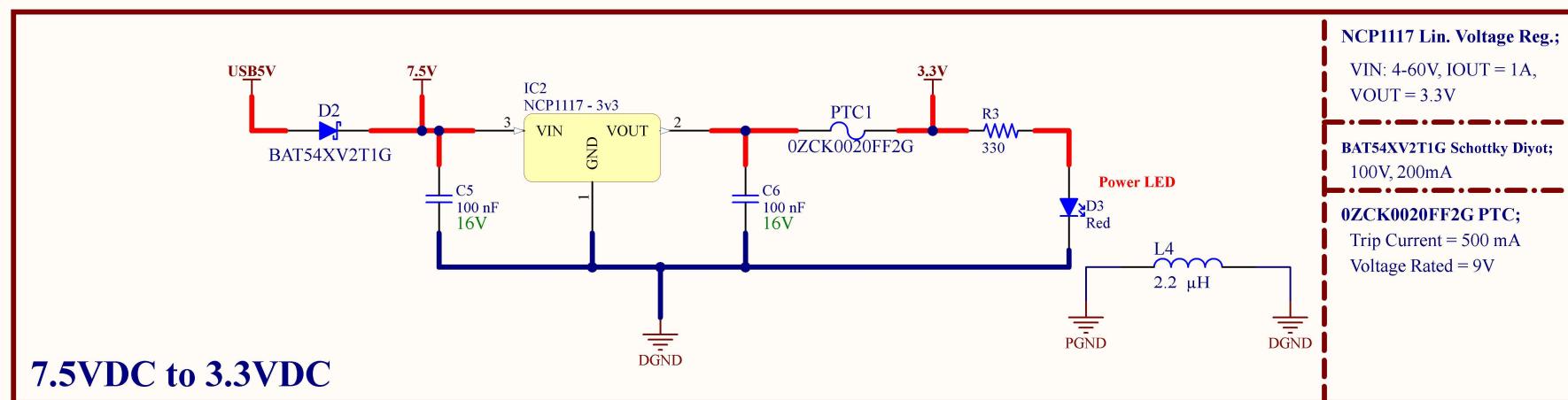
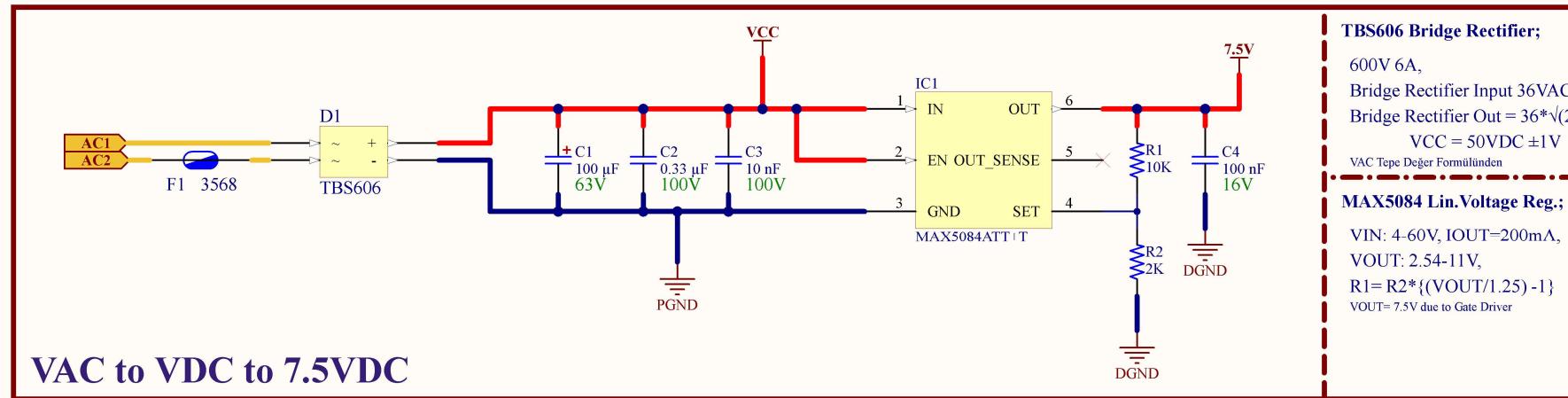
Mergen Switch Mode Power Supply Board

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:mergenelk



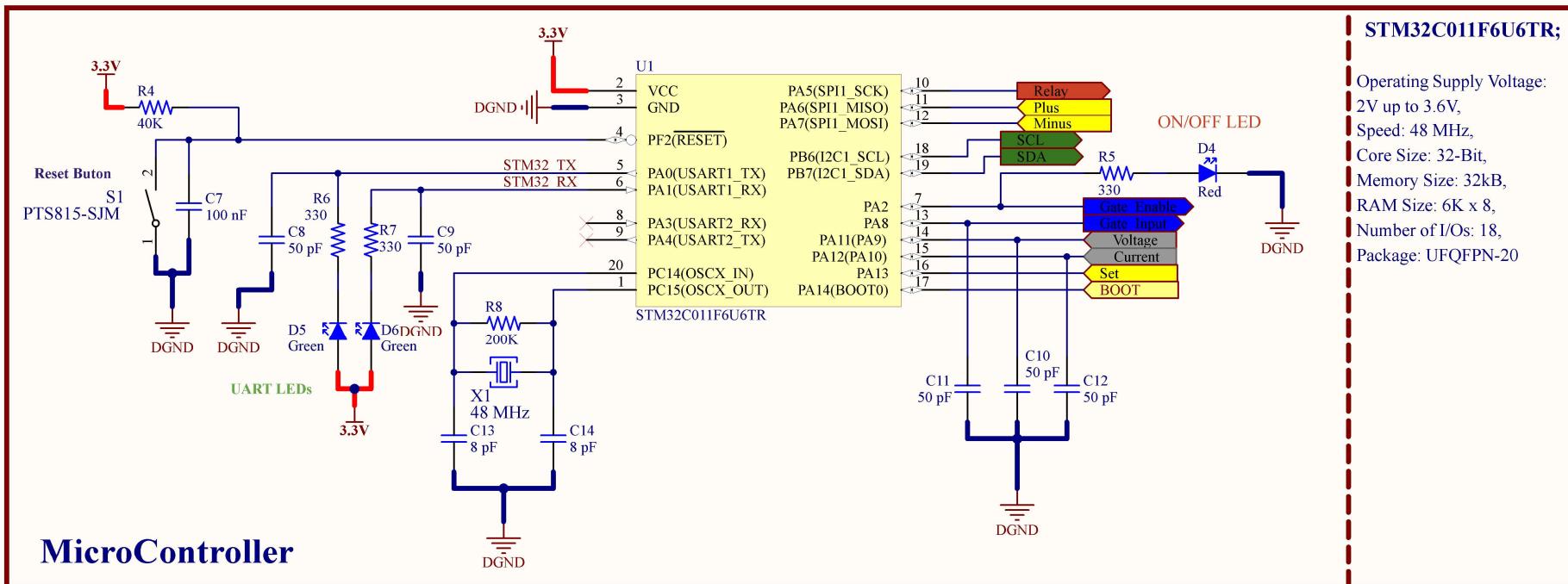
Title: Description		Mergen Elektronik	M E R G E N	
Size: A4	Number: 20240101	Revision: v0.0.1	Türkiye	Drawn By: Ekrem T. Fırat
Date: 26.10.2024	Time: 00:18:16	Sheet 2 of 7	*	*
Project Mergen SMPS Board.PrjPcb			*	*

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:mergenelk



Title: Power Distribution		Mergen Elektronik	MERGEN	
Size: A4	Number: 20240101	Revision: v0.0.1	*	Drawn By: Ekrem T. Fırat

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:mergenelk



Title: MicroController			Mergen Elektronik
Size: A4	Number: 20240101	Revision: v0.0.1	Türkiye *

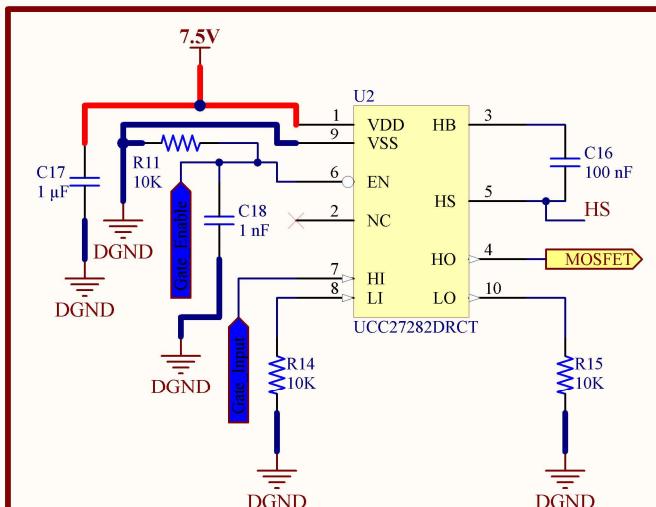
Date: 26.10.2024 Time: 00:18:16 Sheet 4 of 7

Project Mergen SMPS Board.PrjPcb

M E R G E N

Drawn By: Ekrem T. Fırat

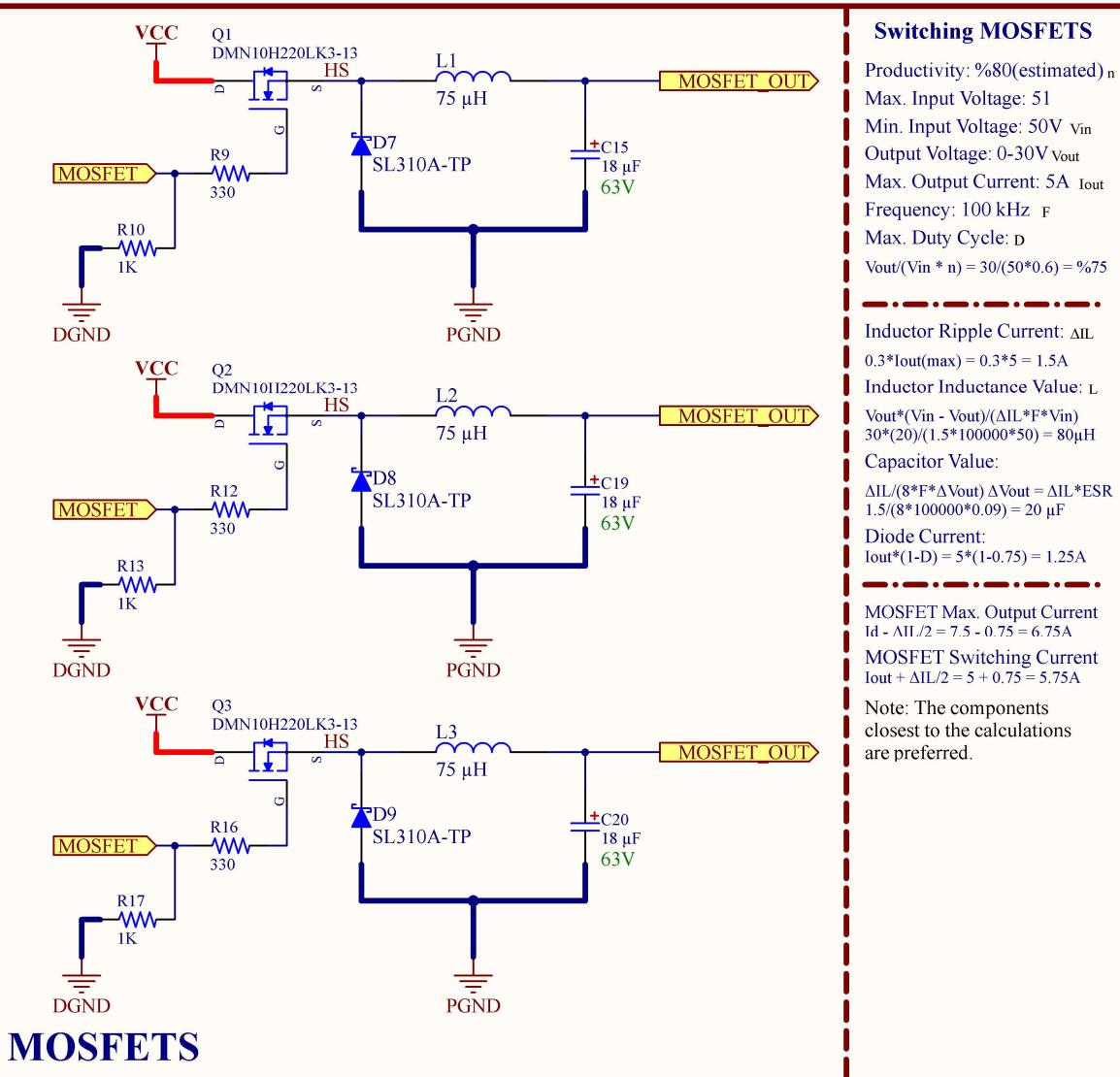
A



Gate Driver Circuit

UCC27282DRCT Half Bridge Gate Driver;

Operating Supply Voltage: 5.5V up to 16V,
Boot Voltage: 120VDC, Output Peak Current: 3A,
Gate Type: N Channel,
Integrated Bootstrap Diode



MOSFETS

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:megenelk

Title: **Gate Driver and MOSFETS**

Size: A4 Number: 20240101 Revision: v0.0.1
Date: 26.10.2024 Time: 00:18:16 Sheet 5 of 7
Project Megen SMPS Board.PrjPcb

Megen Elektronik

M E R G E N

Türkiye * * *

Drawn By: Ekrem T. Fırat

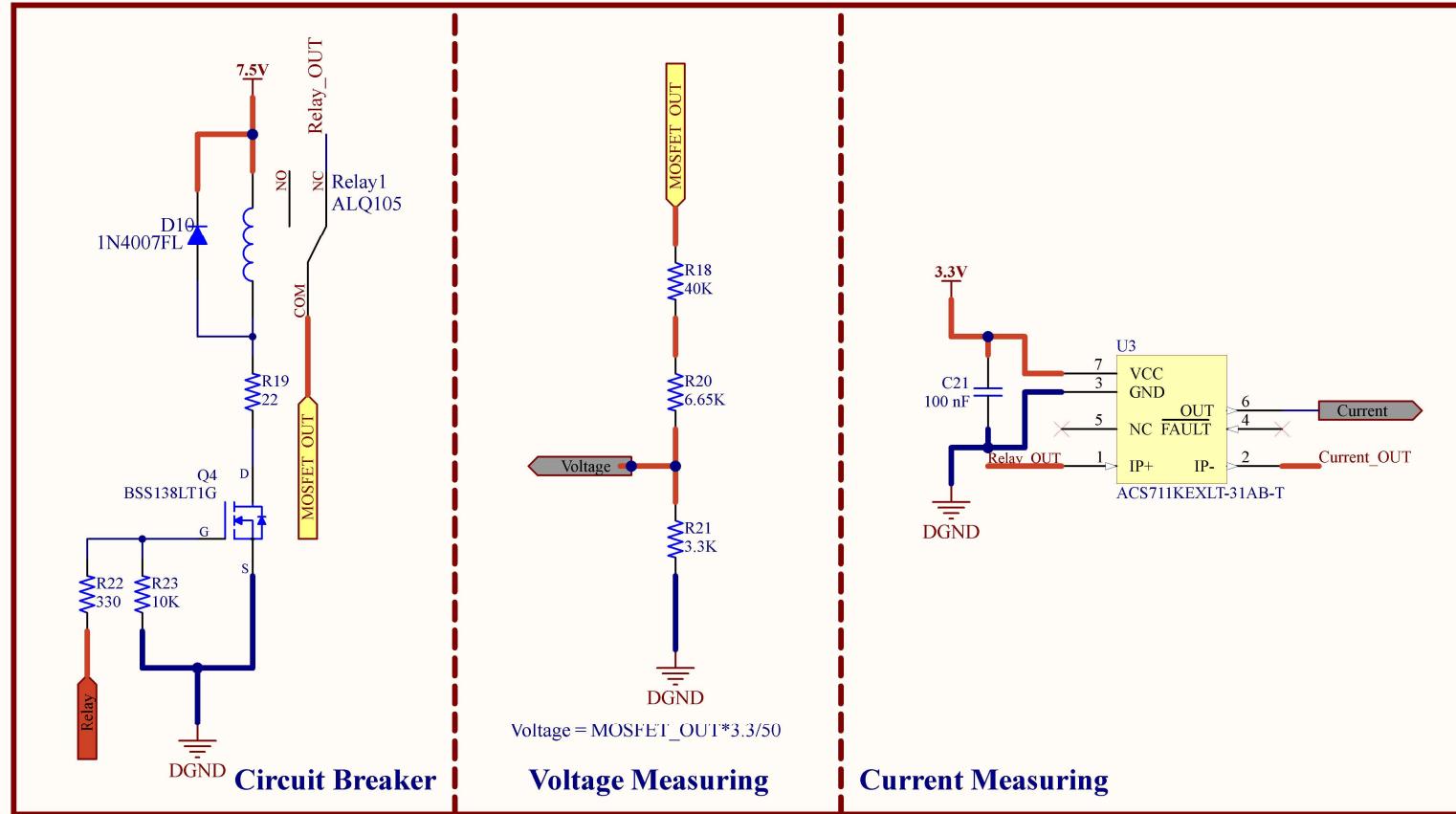
A

B

C

D

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:mergenelk



Title: Measuring		Mergen Elektronik
Size: A4	Number: 20240101	Revision: v0.0.1
Date: 26.10.2024	Time: 00:18:16	Sheet 6 of 7
Project Mergen SMPS Board.PrjPcb	*	*

M E R G E N

Drawn By: Ekrem T. Fırat

Attention: This project is open source and still under development. The project is always dangerous because it involves grid electricity's transformation and control. The engineer is not responsible for any adverse situation that may occur.
Contact: ig:mergenelk

A

A

B

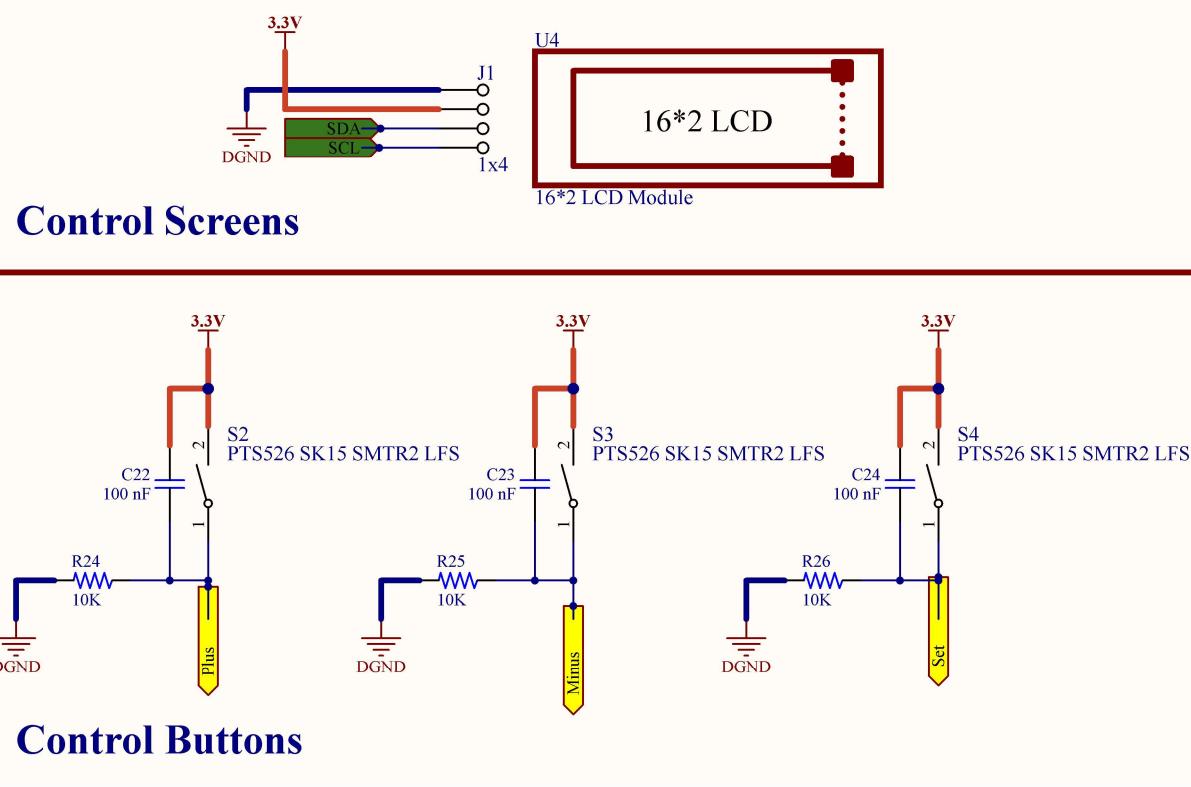
B

C

C

D

D



Title: Control		Mergen Elektronik
Size: A4	Number: 20240101	Revision: v0.0.1
Date: 26.10.2024	Time: 00:18:17	Sheet 7 of 7
Project Mergen SMPS Board.PrjPcb	*	*

MERGEN